

Curriculum Vitae
Charles S. Spencer, Curator
Division of Anthropology, American Museum of Natural History
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Date of birth: June 12, 1950 Birthplace: Ancon, Panama

Citizenship (Dual): U.S.A. and Panama

Family Status: Married, two children

Education: B.A. (Anthropology) 1972 Rice University
M.A. (Anthropology) 1976 University of Michigan
Ph.D. (Anthropology) 1981 University of Michigan

Professional Positions:

1975-76 Field Research Assistant, Peabody Foundation, Andover, Massachusetts.
1976-77 Research Assistant, Museum of Anthropology, University of Michigan.
1980-81 Visiting Instructor, Department of Anthropology, University of Connecticut.
1981-86 Assistant Professor, Department of Anthropology, University of Connecticut.
1983- Colaborador Visitante, Instituto Venezolano de Investigaciones Científicas, Caracas
1986-91 Associate Professor, Department of Anthropology, University of Connecticut.
1988 Academic tenure awarded.
1991-94 Associate Curator, Dept. of Anthropology, American Museum of Natural History.
1994- present Curator of Mexican and Central American Archaeology, Division of Anthropology,
American Museum of Natural History.
1992-2008 Adjunct Associate Professor, Department of Anthropology, Columbia University.
2008-12 Adjunct Professor, Department of Anthropology, Columbia University.
2001- present Adjunct Senior Research Scientist, Center For Environmental Research and
Conservation, Columbia University.
2013- present Senior Adjunct Research Officer, Dept. of Anthropology, Columbia University.
2002-09 Chair, Division of Anthropology, American Museum of Natural History.

Professional Societies:

American Association for the Advancement of Science; Society for American Archaeology;
Asociación Venezolana de Arqueología; Sigma Xi, The Scientific Research Society

Honor Societies:

American Academy of Arts and Sciences (elected 2006)
National Academy of Sciences (elected 2007)

Research Interests: Archaeology; cultural evolution of complex societies; human ecology; settlement

patterns; analytical methods; Mexico, Central America, Venezuela, Caribbean.

Grants and Fellowships:

Rackham Block Grant, Univ. of Michigan 1975-76.
Research Assistantship, Univ. of Michigan 1976-77.
Rackham Pre-Doctoral Fellowship, University of Michigan 1977-78
Rackham Dissertation Grant, Univ. of Michigan 1977-78.
National Science Foundation Dissertation Improvement Grant 1977-78
(BNS-7715805). Advisor: Kent V. Flannery.
Rackham Block Grant, Univ. of Michigan 1979-80.
Connecticut Research Foundation Grant 1980-81.
Connecticut Research Foundation Grant 1982-83.
Faculty Summer Research Fellowship, University of Connecticut 1985
National Science Foundation Grant 1985-90 (BNS-8506192). \$39,872.
PI, with Elsa Redmond as Co-PI.
National Science Foundation Grant 1993-98 (SBR-9303129). \$57,990.
PI, with Elsa Redmond as Co-PI.
Foundation for the Advancement of Mesoamerican Studies Grant (1999). \$7,551.
Co-PI, with Elsa Redmond as PI.
Heinz Foundation Grant (1999-2000). \$7,993.
Co-PI, with Elsa Redmond as PI.
National Geographic Society Grant 1999-2000 (#6519-99). \$10,443.
PI, with Elsa Redmond as Co-PI.
National Science Foundation Grant 2004-09 (BCS-0342221). \$85,694.
Co-PI, with Christina Elson as PI.
National Science Foundation Grant 2009-12 (BCS-0921133). \$58,255.
Co-PI, with Elsa M. Redmond as PI.
National Geographic Society Grant 2013-14 (#9361-13). \$19,970.
PI, with Elsa M. Redmond as Co-PI
National Science Foundation Grant 2014-2017 (BCS-1347166). \$91,237.
Co-PI, with Nicola Sharratt as PI.

Exhibitions:

“Chocolate” (Curatorial Advisor) 2003.
“Gold” (Curatorial Advisor) 2006.

Courses recently taught:

Archaeology of Pre-State Societies (Columbia University)
Evolution of Complex Societies (Columbia U.)
Ecological Studies in Anthropology (Columbia U.)

Fieldwork and Research Experience:

Field Assistant, Monte Albán Survey Project, Oaxaca, Mexico; directed by Dr. Richard Blanton. Summer 1971, Summer 1972.

Field Assistant, Excavations at Shell Point and Three Oaks, Texas; directed by Dr. Frank Hole. Fall 1971, Spring 1972.

Assistant Field Supervisor, Excavations at Monte Albán; directed by Dr. Marcus Winter. Fall 1972, Fall 1973.

Laboratory Assistant, Analysis of ceramics from Monte Albán Survey and Excavations. Winter-Spring-Summer 1973, Spring 1974.

Assistant Field Supervisor, Excavations at Santo Domingo Tomaltepec, Oaxaca; directed by Dr. Michael Whalen. Spring-Summer 1974.

Assistant Field Supervisor, Palo Blanco Project, Tehuacán, Mexico; directed by Dr. Robert D. Drennan. Summer 1975.

Survey Director, Purrón Dam Locality, Tehuacán, Mexico; as part of the Palo Blanco Project. Summer 1976.

Assistant Field Supervisor, Cuicatlán Cañada Survey, Oaxaca, Mexico; directed by Dr. Elsa Redmond. May-October 1977.

Excavation Director, La Coyotera, Oaxaca, Mexico. November 1977 to April 1978.

Conducted laboratory analysis of material from La Coyotera excavations. April-November 1978. Tehuacán, Mexico.

Conducted computer analysis of data from La Coyotera excavations. January-August 1979. University of Michigan Museum of Anthropology. Ann Arbor.

Conducted laboratory analysis of archaeological material from the Cuicatlán Cañada. May-June 1980. Tehuacán, Mexico.

Co-Director, Preliminary Survey in Barinas, Venezuela. January 1982.

Co-Director, Survey and Test Excavation in Barinas, Venezuela. July-August 1983.

Co-Director, Settlement Pattern Survey, Barinas, Venezuela. July-August 1984, 1985.

Co-Director, Test Excavation Program, Barinas, Venezuela. January-May 1986.

Co-Director, Block Excavation Program, Barinas, Venezuela. January-May 1988.

Co-Director, Laboratory Analysis of Barinas data. Departamento de Antropología, Instituto Venezolano de Investigaciones Científicas, Caracas, Venezuela. 1988-92.

Co-Director, Intensive Survey at San Martín Tilcajete, Oaxaca, Mexico. July-August 1993, 1994.

Co-Director, Excavations at San Martín Tilcajete, Oaxaca, Mexico. July-August 1995, 1996, 1997, 1998, 1999, 2000.

Co-Director, Laboratory Analysis of Excavated Materials at San Martín Tilcajete, Oaxaca, Mexico. July-August 2001, 2002, 2004, 2005, 2006, 2007.

Co-Director, Excavations at El Palenque, San Martín Tilcajete, Oaxaca. February 2009; July-August 2009.

Co-Director, Laboratory Analysis of Excavated Materials at San Martín Tilcajete, Oaxaca, Mexico. July-August 2010.

Co-Director, Excavations at El Palenque, San Martín Tilcajete, Oaxaca, Mexico. January-March 2011; July-August 2011.

Co-Director, Laboratory Analysis of Excavated Materials at San Martín Tilcajete, Oaxaca, Mexico. July-August 2012.

Co-Director, Excavations at El Palenque and El Mogote. San Martín Tilcajete, Oaxaca, Mexico. January 13-April 4, 2014.

Co-Director, Laboratory Analysis of Excavated Materials at San Martín Tilcajete, Oaxaca, Mexico. July-August 2014.

Publications:

- (1) O'Brien, Michael and Charles S. Spencer. 1976. The Upper Texas Gulf Coast: Environmental Variables and Human Adaptations. Texas Journal of Science 27:453-463.
- (2) Spencer, Charles S. and Elsa M. Redmond. 1977. Survey in the Arroyo Lencho Diego. In The Palo Blanco Project: A Report on the 1975 and 1976 Seasons in the Tehuacán Valley, ed. by Robert D. Drennan, pp. 49-59. R.S. Peabody Foundation for Archaeology, Andover, Mass. University of Michigan Museum of Anthropology, Ann Arbor.
- (3) Kowalewski, Stephen, Charles S. Spencer, and Elsa M. Redmond. 1978. Description of Ceramic Categories. Appendix II, in Monte Albán: Settlement Patterns at the Ancient Zapotec Capital, by Richard E. Blanton, pp. 167-193. Academic Press, New York.
- (4) Spencer, Charles S. 1979. Irrigation, Administration, and Society in Formative Tehuacán. In Prehistoric Social, Political, and Economic Development in the Area of the Tehuacán Valley: Some Results of the Palo Blanco Project, ed. by Robert D. Drennan, pp. 13-109. University of Michigan Museum of Anthropology Technical Reports, No. 11. Ann Arbor.
- (5) Spencer, Charles S., and Elsa M. Redmond. 1979. Formative and Classic Developments in the Cuicatlán Cañada: A Preliminary Report. In Prehistoric Social, Political, and Economic

Development in the Area of the Tehuacán Valley: Some Results of the Palo Blanco Project, ed. by Robert D. Drennan, pp. 201-215. University of Michigan Museum of Anthropology Technical Reports, No. 11. Ann Arbor.

- (6) Spencer, Charles S. 1981. The Spatial Organization of an Early Formative Household. Appendix X, in Excavations at Santo Domingo Tomaltepec: Evolution of a Formative Community in the Valley of Oaxaca, Mexico, by Michael E. Whalen, pp. 195-203. University of Michigan Museum of Anthropology Memoirs, No. 12. Ann Arbor.
- (7) Spencer, Charles S. 1982. The Cuicatlán Cañada and Monte Albán: A Study of Primary State Formation. Academic Press, New York. 326 pp.
- (8) Redmond, Elsa M., and Charles S. Spencer. 1982. Chieftdom and State in Formative Oaxaca. Journal of the Steward Anthropological Society 13:2:7-38.
- (9) Spencer, Charles S., and Elsa M. Redmond. 1982. Ceramic Chronology for the Cuicatlán Cañada. In The Cuicatlán Cañada and Monte Albán: A Study of Primary State Formation, by Charles S. Spencer, pp. 261-307. Academic Press, New York.
- (10) Spencer, Charles S. 1982. Review of Lowland Maya Settlement Patterns, ed. by Wendy Ashmore. University of New Mexico Press. Albuquerque. In American Anthropologist 84:165-166.
- (11) Redmond, Elsa M., and Charles S. Spencer. 1983. The Cuicatlán Cañada and the Period II Frontier of the Zapotec State. In The Cloud People: Divergent Evolution of the Zapotec and Mixtec Civilizations, ed. by Kent V. Flannery and Joyce Marcus, pp. 117-120. Academic Press, New York.
- (12) Spencer, Charles S., and Elsa M. Redmond. 1983. A Middle Formative Elite Residence and Associated Structures at La Coyotera, Oaxaca. In The Cloud People: Divergent Evolution of the Zapotec and Mixtec Civilizations, ed. by Kent V. Flannery and Joyce Marcus, pp. 71-72. Academic Press, New York.
- (13) Spencer, Charles S., and Elsa M. Redmond. 1985. Archaeological Investigations in the Andean Piedmont and High Llanos of Western Venezuela: A Preliminary Report. In Recent Studies in Andean Prehistory and Protohistory, ed. by Daniel Sandweiss and D. Peter Kvietok, pp. 137-157. Cornell Latin American Studies Program, Ithaca.
- (14) Spencer, Charles S. 1985. Review of Warfare, Culture, and Environment, ed. by R. Brian Ferguson. Academic Press, Orlando. In American Scientist 73:395.
- (15) Spencer, Charles S. 1985. Review of Supplement 2, Handbook of Middle American Indians. Volume II: Linguistics, ed. by M. S. Edmondson, with assistance of P.A. Andrews. University of Texas Press, Austin. In Hispanic American Historical Review 65:606-607.
- (16) Spencer, Charles S. 1985. Abstract on Barinas project. Willay 20/21:16-17.
- (17) Spencer, Charles S., and Kent V. Flannery. 1986. Spatial Variation of Debris at Guilá Naquitz: A

Descriptive Approach. In Guilá Naquitz: Archaic Foraging and Early Agriculture in Oaxaca, Mexico, ed. by Kent V. Flannery, pp. 331-367. Academic Press, New York.

- (18) Spencer, Charles S. 1986. Review of The Origin of Ancient American Cultures, by Paul Shao. Iowa State University Press. Ames. In American Antiquity 51:187-188.
- (19) Spencer, Charles S. 1987. Rethinking the Chiefdom. In Chiefdoms in the Americas, ed. by Robert D. Drennan and Carlos Uribe, pp. 369-390. University Press of America, Lanham, Maryland.
- (20) Spencer, Charles S. 1988. Commentary on The Valley of Oaxaca and Ecological Theory. Current Anthropology 29:65-66.
- (21) Spencer, Charles S. 1988. Review of Ancient Chalcatzingo, ed. by David Grove. University of Texas Press, Austin. In American Scientist 76:626.
- (22) Spencer, Charles S. 1989. Review of The Collapse of Ancient States and Civilizations, ed. by Norman Yoffee and George Cowgill. University of Arizona Press, Tucson. In American Scientist 77:600.
- (23) Redmond, Elsa M., and Charles S. Spencer. 1989. Investigaciones en el Piedemonte Andino y los Llanos Altos de Barinas. Boletín de la Asociación Venezolana de Arqueología 5:4-24. Caracas.
- (24) Spencer, Charles S. 1990. On the Tempo and Mode of State Formation: Neoevolutionism Reconsidered. Journal of Anthropological Archaeology 9:1-30.
- (25) Spencer, Charles S. 1990. Review of Essays in Maya Archaeology. By Gordon R. Willey. University of New Mexico Press, Albuquerque. In American Antiquity 55:202.
- (26) Spencer, Charles S. 1991. Coevolution and the Development of Venezuelan Chiefdoms. In Profiles in Cultural Evolution: Essays in Honor of Elman R. Service, ed. by A.Terry Rambo, and Katherine Gillogly, pp. 137-165. Anthropological Papers of the University of Michigan Museum of Anthropology, No. 85. Ann Arbor.
- (27) Spencer, Charles S., and Elsa M. Redmond. 1991. At the Foot of the Andes. Faces 8:7:22-27.
- (28) Spencer, Charles S., and Elsa M. Redmond. 1991. Looting: A Tragedy for Science. Faces 8:7:26-27. (sidebar)
- (29) Spencer, Charles S. 1991. Homology, Analogy, and Comparative Research in Archaeology. Abstracts of the American Anthropological Association Annual Meeting Vol. 90.
- (30) Spencer, Charles S., and Elsa M. Redmond. 1992. Prehispanic Chiefdoms of the Western Venezuelan Llanos. World Archaeology 24:134-157.
- (31) Redmond, Elsa M., and Charles S. Spencer. 1992. The Prehistoric City and State of Monte Albán: A View from Its Frontier. In La Ciudad y el Campo en la Historia de México: Memoria de la VII Reunión de Historiadores Mexicanos y Norteamericanos. Tomo I, ed. by Ricardo A. Sánchez,

Eric Van Young, and Gisela von Wobeser, pp. 3-24. Instituto de Investigaciones Históricas, Universidad Nacional Autónoma de México, México, D.F.

- (32) Spencer, Charles S. 1992. Homology, Analogy, and Comparative Research in Archaeology. Behavior Science Research 26:163-168.
- (33) Redmond, Elsa M., and Charles S. Spencer. 1992. The Jaguar Has Landed: Native and Imperial Ideologies in Formative Oaxaca. Abstracts of the American Anthropological Association Annual Meeting 91:274.
- (34) Spencer, Charles S., Elsa M. Redmond, and Milagro Rinaldi. 1992. Prehispanic Drained Field Agriculture in Barinas, Venezuela. Abstracts of the 57th Annual Meeting of the Society for American Archaeology (p. 119).
- (35) Spencer, Charles S. 1993. Human Agency, Biased Transmission, and the Cultural Evolution of Chiefly Authority. Journal of Anthropological Archaeology 12:41-74.
- (36) Spencer, Charles S. 1993. Comment on Practice and Political Centralisation: A New Theoretical Approach to Political Evolution. Current Anthropology 34:132-133.
- (37) Spencer, Charles S. 1993. Review of Ideology and Pre-Columbian Civilizations. Ed. by A. Demarest and G. Conrad. School of American Research Press, Santa Fe. In American Anthropologist 95:1019-1020.
- (38) Spencer, Charles S. 1994. Factional Ascendance, Dimensions of Leadership, and the Development of Centralized Authority. In Factional Competition and Political Development in the New World, ed. by Elizabeth Brumfiel and John Fox, pp. 31-43. Cambridge University Press, Cambridge.
- (39) Spencer, Charles S. 1994. Review of Archaeological Curatorship, by Susan Pearce. Smithsonian Institution Press, Washington, D.C. In Curator 37:1:66-67.
- (40) Spencer, Charles S., Elsa M. Redmond, and Milagro Rinaldi. 1994. Drained Fields at La Tigra, Venezuelan Llanos: A Regional Perspective. Latin American Antiquity 5:119-143.
- (41) Redmond, Elsa M. and Charles S. Spencer. 1994. The Caciczgo: An Indigenous Design. In Caciques and their People: A Volume in Honor of Ronald Spores, ed. by Joyce Marcus and Judith Zeitlin, pp. 189-225. Anthropological Papers of the University of Michigan Museum of Anthropology, No. 89. Ann Arbor.
- (42) Redmond, Elsa M., and Charles S. Spencer. 1994. Savanna Chiefdoms of Venezuela. National Geographic Research and Exploration 10:422-439.
- (43) Spencer, Charles S. 1994. Feasts, Funerals, and Politics in Formative Cuicatlán. Abstracts of the American Anthropological Association Annual Meeting 93:323.
- (44) Redmond, Elsa M., and Charles S. Spencer. 1995. Las Calzadas Prehispánicas de Barinas en su Contexto Regional. Acta Científica Venezolana 46:4:253-262.

- (45) Spencer, Charles S. 1996. Review of Semillas de Industria: Transformaciones de la Tecnología Indígena en las Américas, ed. by Mario Humberto Ruz. CIESAS, Tlalpan, Mexico. In Journal of the Royal Anthropological Institute 2:4:730-731.
- (46) Redmond, Elsa M., and Charles S. Spencer. 1996. Development of Regional Polities on the Venezuelan Llanos. Abstracts of the American Anthropological Association Annual Meeting 95:363.
- (47) Spencer, Charles S. 1996. Review of Agricultura Indígena: Pasado y Presente. Ed. by Teresa Rojas Rabiela. CIESAS, Mexico. In Hispanic American Historical Review 76:3:551-552
- (48) Spencer, Charles S., and Elsa M. Redmond. 1997. Archaeology of the Cañada de Cuicatlán, Oaxaca. Anthropological Papers of the American Museum of Natural History, No. 80. New York. 642 pp.
- (49) Redmond, Elsa M., and Charles S. Spencer. 1997. Early Visitors to Quiotepec and Other Archaeological Sites in the Cañada. Appendix C in Archaeology of the Cañada de Cuicatlán, Oaxaca. Anthropological Papers of the American Museum of Natural History, No. 80, pp. 620-630. New York.
- (50) Spencer, Charles S. 1997. Evolutionary Approaches in Archaeology. Journal of Archaeological Research 5:209-264.
- (51) Redmond, Elsa M., and Charles S. Spencer. 1997. Quiotepec: The Northern Frontier of the Zapotec State. Abstracts of the 62nd Annual Meeting of the Society for American Archaeology 62:182. Nashville.
- (52) Spencer, Charles S. 1998. A Mathematical Model of Primary State Formation. Cultural Dynamics 10:5-20.
- (53) Spencer, Charles S., and Elsa M. Redmond. 1998. Prehispanic Causeways and Regional Politics in the Llanos of Barinas, Venezuela. Latin American Antiquity 9:95-110.
- (54) Spencer, Charles S. 1998. Commentary on The Goals of Evolutionary Archaeology: History and Explanation. Current Anthropology 39:641-642.
- (55) Spencer, Charles S. 1998. Investigating the Development of Venezuelan Chiefdoms. In Chiefdoms and Chieftaincy in the Americas, ed. by E. Redmond, pp. 104-137. University of Florida Press, Gainesville.
- (56) Spencer, Charles S. 1999. Prehispanic Water Management in Mexico and Venezuela: Implications for Contemporary Ecological Planning. Abstracts of the World Archaeological Congress 4:500/3.
- (57) Spencer, Charles S. 1999. Palatial Digs. Natural History 108:2:94-95.
- (58) Redmond, Elsa M., Rafael Gassón, and Charles S. Spencer. 1999. A Macroregional View of Cycling

Chiefdoms in the Western Venezuelan Llanos. In Complexity in the Ancient Tropical World, ed. by Elisabeth Bacus and Lisa Lucero, pp. 109-129. Archaeological Papers of the American Anthropological Association, No. 9. Washington, D.C.

- (59) Spencer, Charles S., and Elsa M. Redmond. 2000. Lightning and Jaguars: Iconography, Ideology, and Politics in Formative Cuicatlán, Oaxaca. In Cultural Evolution: Contemporary Viewpoints, ed. by Gary Feinman and Linda Manzanilla, pp. 145-175. Kluwer Academic/Plenum, New York.
- (60) Spencer, Charles S. 2000. Prehispanic Water Management and Agricultural Intensification in Mexico and Venezuela: Implications for Contemporary Ecological Planning. In Imperfect Balance: Landscape Transformations in the Precolumbian Americas, ed. by David Lentz, pp. 147-178. Columbia University Press, New York.
- (61) Spencer, Charles S. 2000. Politicheskaya ekonomii stanovleniia Pervichnogo gosudarstva. In Al'ternativnye puti k tsvilizatsii, ed. by N. Kradin, A. Korotayev, D. Bondarenko, and V. Linche, pp. 137-154. Logos, Moscow.
- (62) Spencer, Charles S. 2000. The Political Economy of Pristine State Formation. In Alternatives of Social Evolution, ed. by Nicolay N. Kradin, Andrey V. Korotayev, Dmitri M. Bondarenko, Victor de Munck, and Paul W. Wason, pp. 154-165. Institute of History, Archaeology and Ethnology, Far Eastern Branch of the Russian Academy of Sciences, Vladivostok.
- (63) Spencer, Charles S. 2000. Food Scarcity, Rural Poverty, and Agricultural Development in Latin America: Issues and Evidence. Culture & Agriculture 22:3:1-14.
- (64) Spencer, Charles S., and Elsa M. Redmond. 2001. Purrón Dam. In The Archaeology of Ancient Mexico and Central America: An Encyclopedia, ed. by S. Evans and D. Webster, pp. 618-619. Garland, New York.
- (65) Spencer, Charles S., and Elsa M. Redmond. 2001. La Coyotera. In The Archaeology of Ancient Mexico and Central America: An Encyclopedia, ed. by S. Evans and D. Webster, p. 187. Garland, New York.
- (66) Spencer, Charles S. and Elsa M. Redmond. 2001. Cuicatlán Canyon. In The Archaeology of Ancient Mexico and Central America: An Encyclopedia, ed. by S. Evans and D. Webster, p. 198. Garland, New York.
- (67) Redmond, Elsa M., and Charles S. Spencer. 2001. Monte Albán's Campaigns of Conquest and the Early Zapotec State. Abstracts of the 66th Annual Meeting of Society for American Archaeology (p. 309). New Orleans.
- (68) Spencer, Charles S., and Elsa M. Redmond. 2001. Exchange Patterns and Political Development in Late Formative Oaxaca: The View from Tilcajete. Abstracts of the 66th Annual Meeting of Society for American Archaeology (p. 352-353). New Orleans.
- (69) Spencer, Charles S., and Elsa M. Redmond. 2001. Multilevel Selection and Political Evolution in the Valley of Oaxaca, 500-100 B.C. Journal of Anthropological Archaeology 20:195-229.

- (70) Spencer, Charles S., and Elsa M. Redmond. 2001. The Chronology of Conquest: Implications of New Radiocarbon Analyses from the Cañada de Cuicatlán, Oaxaca. Latin American Antiquity 12:182-202.
- (71) Spencer, Charles S. 2002. Archaeology and Sustainable Development. In Life on Earth: An Encyclopedia of Biodiversity, Ecology, and Evolution, edited by Niles Eldredge, pp. 142-144. ABC-CLIO Publishers, Santa Barbara, CA.
- (72) Beckmann, Jennifer, Charles S. Spencer, and Elsa M. Redmond. 2002. Early State Development at San Martín Tilcajete. Electronic article, <http://anthro.amnh.org>, American Museum of Natural History, New York.
- (73) Beckmann, Jennifer, and Charles S. Spencer. 2002. Sustainable Development through Water Management and Agricultural Intensification in Latin America. Electronic article, <http://anthro.amnh.org>, American Museum of Natural History, New York.
- (74) Beckmann, Jennifer, Charles S. Spencer, and Elsa M. Redmond. 2002. Archaeology of the Western Venezuelan Llanos: The Barinas Project. Electronic article, <http://anthro.amnh.org>, American Museum of Natural History, New York.
- (75) Beckmann, Jennifer, Charles S. Spencer, and Elsa M. Redmond. 2002. Archaeology of the Cañada de Cuicatlán, Oaxaca, Mexico. Electronic article, <http://anthro.amnh.org>, American Museum of Natural History, New York.
- (76) Spencer, Charles S., and Elsa M. Redmond. 2003. Militarism, Resistance, and Early State Development in Oaxaca, Mexico. Social Evolution & History 2(1):25-70.
- (77) Spencer, Charles S. and Elsa M. Redmond. 2003. A Middle Formative Elite Residence and Associated Structures at La Coyotera, Oaxaca. In The Cloud People: Divergent Evolution of the Zapotec and Mixtec Civilizations (reprinted edition), ed. by Kent V. Flannery and Joyce Marcus, pp. 71-72. Percheron Press, Clinton Corners, NY.
- (78) Redmond, Elsa M., and Charles S. Spencer. 2003. The Cuicatlán Cañada and the Period II Frontier of the Zapotec State. In The Cloud People: Divergent Evolution of the Zapotec and Mixtec Civilizations (reprinted edition), ed. by Kent V. Flannery and Joyce Marcus, pp. 117-120. Percheron Press, Clinton Corners, NY.
- (79) Spencer, Charles S. 2003. War and Early State Formation in Oaxaca, Mexico. Proceedings of the National Academy of Sciences U.S.A. 100(20):11185-11187.
- (80) Spencer, Charles S., and Elsa M. Redmond. 2004. Dealing with Resistance: Territorial Expansion and Early State Development in Oaxaca, Mexico. Abstracts of the Third International Conference on Hierarchy and Power in the History of Civilizations (pp. 86-87). Moscow.
- (81) Kowalewski, Stephen, Charles S. Spencer, and Elsa M. Redmond. 2004. Description of Ceramic Categories. Appendix II, in Monte Albán: Settlement Patterns at the Ancient Zapotec Capital

(reprinted edition), by Richard E. Blanton, pp. 167-193. Percheron Press, Clinton Corners, NY.

- (82) Spencer, Charles S., and Elsa M. Redmond. 2004. Conquest Warfare, Strategies of Resistance, and the Rise of the Zapotec Early State. In The Early State, Its Alternatives and Analogues, ed. by L. E. Grinin, R. L. Carneiro, D. M. Bondarenko, N. N. Kradin, and A. V. Korotayev, pp. 220-261. Urchitel, Moscow.
- (83) Spencer, Charles S. and Elsa M. Redmond. 2004. Primary State Formation in Mesoamerica. Annual Review of Anthropology 33:173-199.
- (84) Spencer, Charles S., and Elsa M. Redmond. 2004. A Late Monte Albán I Phase (300-100 B.C.) Palace in the Valley of Oaxaca. Latin American Antiquity 15:441-455.
- (85) Sherman, R. Jason, Leah Minc, Christina M. Elson, Charles S. Spencer, and Elsa M. Redmond. 2004. The Preliminary Results of Trace-element Analysis on Pottery from Periods Monte Albán I and Monte Albán II from the Sites of El Palenque, Cerro Tilcajete, and Yaasuchi (Oaxaca, Mexico). Electronic article, <http://anthro.amnh.org>, American Museum of Natural History, New York.
- (86) Spencer, Charles S. 2005. Past, Present, and Possible Future of Anthropology at the American Museum of Natural History. Abstracts of the 2005 Annual Meeting of the American Association for the Advancement of Science (p. A4). Washington, D.C.
- (87) Spencer, Charles S. 2005. Crossing the Valley: Adaptive Landscapes and Primary State Formation in Ancient Oaxaca. Abstracts of the 70th Annual Meeting of the Society for American Archaeology (p. 276). Salt Lake City, Utah.
- (88) Spencer, Charles S., and Elsa M. Redmond. 2005. Institutional Development in Late Formative Oaxaca: The View from San Martín Tilcajete. In New Perspectives on Formative Mesoamerican Cultures, ed. by Terry G. Powis, pp. 171-182. British Archaeological Reports, International Series 1377. Archaeopress, Oxford, UK.
- (89) Flannery, Kent V., Andrew K. Balkansky, Gary M. Feinman, David C. Grove, Joyce Marcus, Elsa M. Redmond, Robert G. Reynolds, Robert J. Sharer, Charles S. Spencer, and Jason Yaeger. 2005. Implications of New Petrographic Analysis for the Olmec "Mother Culture" Model. Proceedings of the National Academy of Sciences U.S.A. 102:11219-11223.
- (90) Spencer, Charles S., and Elsa M. Redmond. 2006. Resistance Strategies and Early State Formation in Oaxaca, Mexico. In Intermediate Elites in Precolumbian States and Empires, ed. by Christina Elson and R. Alan Covey, pp. 21-43. Univ. of Arizona Press, Tucson.
- (91) Sharer, Robert J., Andrew K. Balkansky, James H. Burton, Gary M. Feinman, Kent V. Flannery, David C. Grove, Joyce Marcus, Robert G. Moyle, T. Douglas Price, Elsa M. Redmond, Robert G. Reynolds, Prudence M. Rice, Charles S. Spencer, James B. Stoltman, and Jason Yaeger. 2006. On the Logic of Archaeological Inference: Early Formative Pottery and the Evolution of Mesoamerican Societies. Latin American Antiquity 17:90-103.
- (92) Redmond, Elsa M., and Charles S. Spencer. 2006. From Raiding to Conquest: Warfare Strategies

and Early State Development in Oaxaca, Mexico. In The Archaeology of Warfare: Prehistories of Raiding and Conquest, ed. by Elizabeth N. Arkush and Mark W. Allen, pp. 336-393. Univ. of Florida Press, Gainesville.

- (93) Spencer, Charles S. 2006. Review of Yaxcabá and the Caste War of Yucatán: An Archaeological Perspective, by Rani T. Alexander. 2004. University of New Mexico Press, Albuquerque. Journal of Interdisciplinary History 37:167-168.
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Manuscripts in press, accepted, under review, submitted, or in preparation:

Spencer, Charles S. 2014. Modeling the Evolution of Bureaucracy: Political-Economic Reach and Administrative Complexity. Social Evolution & History Vol. 13, No. 1 (in press).

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- (6) Spencer, C. and E. Redmond. 1998. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en San Martín Tilcajete: Un Centro Subregional del Período Formativo en el Valle de Oaxaca, Temporada 1997." 177 pp.
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- (8) Spencer, C., E. Redmond, and C. Elson. 2000. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de de Antropología e Historia: "Proyecto de Investigación Arqueológica en San Martín Tilcajete: Un Centro Subregional del Período Formativo en el Valle de Oaxaca, Temporada 1999." 185 pp.
- (9) Spencer, C., and E. Redmond. 2000. Final Report to the National Science Foundation concerning grant SBR-9303129, titled "Intensive Survey and Excavation at San Martín Tilcajete: Development of a Formative Subregional Center in the Valley of Oaxaca." Electronic submission. 7 pp.
- (10) Spencer, C., E. Redmond, and C. Elson. 2001. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en San Martín Tilcajete: Un Centro Subregional del Período Formativo en el Valle de Oaxaca, Temporada 2000." 179 pp.
- (11) Spencer, C., and E. Redmond. 2001. Final Technical Report to the Committee for Research and Exploration, National Geographic Society: "Excavations at El Palenque, a Late Formative Center in Oaxaca." (Grant No. 6519-99). 179 pp.
- (12) Spencer, C., E. Redmond, and C. Elson. 2002. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en San Martín Tilcajete: Un Centro Subregional del Período Formativo en el Valle de Oaxaca,

Temporada 2001."

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- (14) Spencer, C., and E. Redmond. 2005. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en San Martín Tilcajete: Un Centro Subregional del Período Formativo en el Valle de Oaxaca, Temporada 2004: Análisis de Laboratorio."
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- (16) Spencer, C., and E. Redmond. 2008. Informe Técnico (Final) para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en San Martín Tilcajete: Un Centro Subregional del Período Formativo en el Valle de Oaxaca, Temporadas 1993-2007."
- (17) Spencer, C., and E. Redmond. 2010. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en El Palenque, San Martín Tilcajete, Valle de Oaxaca: Un Recinto Ceremonial del Período Formativo, Temporada 2009."
- (18) Spencer, C., and E. Redmond. 2010. Adenda al Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en El Palenque, San Martín Tilcajete, Valle de Oaxaca: Un Recinto Ceremonial del Período Formativo, Temporada 2009."
- (19) Spencer, C., and E. Redmond. 2013. Informe Técnico para el Consejo de Arqueología del Instituto Nacional de Antropología e Historia: "Proyecto de Investigación Arqueológica en El Palenque, San Martín Tilcajete, Valle de Oaxaca: Un Recinto Ceremonial del Período Formativo, Temporada 2011."

Public Presentations:

Interregional Processes in Mesoamerica. Colloquium presented jointly with E. Redmond. Department of Anthropology, University of Massachusetts, Amherst. October, 1979. (invited presentation)

Polity and Production on the Zapotec Frontier. Colloquium presented jointly with E. Redmond. Department of Anthropology, Yale University. November, 1979. (invited presentation)

The Cuicatlán Cañada and Monte Albán: Interregional Processes and Primary State Formation in Central Oaxaca. Lecture presented at Department of Anthropology, New York University. March, 1981. (invited presentation)

Exchange, Conquest, and State Formation in Prehispanic Oaxaca. Colloquium presented at Columbia University Seminar on Ecological Systems and Evolution. November, 1981. (invited presentation)

Archaeology in Mexico. Lecture presented at Center for Latin American Studies, University of Connecticut. December, 1981. (invited presentation)

From Chiefdom to Primary State: A Regulatory Transformation. Paper presented at Third Advanced Seminar of the Center for American Archaeology. Kampsville, Illinois. October, 1982. (invited presentation)

Recent Archaeological Investigations in the High Llanos and Piedmont of Western Venezuela. Paper presented jointly with E. Redmond. Northeast Conference on Andean Archaeology and Ethnohistory, American Museum of Natural History, New York. November, 1983.

The Role of Militarism in the Rise of the Monte Albán State. Colloquium presented jointly with E. Redmond. Department of Archaeology, Boston University. November, 1984. (invited presentation)

Rethinking the Chiefdom. Paper presented at 45th International Congress of Americanists. Bogotá, Colombia. July, 1985. (invited presentation)

The Prehistoric City and State of Monte Albán: A View from Its Frontier. Paper presented jointly with E. Redmond. VII Conference of Mexican and United States Historians, Oaxaca, Mexico. October, 1985. (invited presentation)

Archaeology of Western Venezuela. Public lecture presented jointly with E. Redmond at the Glastonbury Rotary Club, Glastonbury, Connecticut. November, 1985. (invited presentation)

Arqueología en el Estado Barinas. Colloquium presented jointly with E. Redmond. Departamento de Antropología, Instituto Venezolano de Investigaciones Científicas (IVIC). Caracas, Venezuela. May, 1986. (invited presentation)

Coevolution and the Development of Venezuelan Chiefdoms. Paper presented at a conference entitled "Ecology and Cultural Evolution in the Tropics" held in honor of Elman R. Service and sponsored by the Center for South and Southeast Asian Studies and the Museum of Anthropology, University of Michigan. August, 1986. (invited presentation)

Paleoindian Sites in Venezuela. Presentation delivered at the Department of Anthropology, University of Connecticut, Storrs. October, 1989.

Prehistoric Settlement and Land Use Along the Río Canaguá, Barinas, Venezuela. Paper presented jointly with Elsa Redmond. Northeast Conference on Andean Archaeology and Ethnohistory. Yale University. New Haven. October, 1989.

Archaeology in Venezuela. Presentation delivered at the Albert Morgan Archaeological Society. Rocky Hill, Conn. April, 1990. (invited presentation)

The Rise of the Zapotec State. Presentation delivered at the New Britain Public Library. New Britain, Conn. May, 1990. (invited presentation)

The Cultural Evolution of Chiefdoms and States: A Punctuational View. Lecture presented at the Department of Anthropology, American Museum of Natural History, New York. May, 1990. (invited presentation)

Prehistoric Chiefdoms of the Western Venezuelan Llanos. Paper presented at a conference entitled "Non-imperial Polities in the Lands Visted by Columbus on His Four Voyages to the New World." Sponsored by the Smithsonian Tropical Research Institute. Panama City, Panama. August, 1990. Also served as chair of one of the conference's symposia, titled "Tribes and Chiefdoms." (invited presentation and participation as chair)

Biased Transmission and the Cultural Evolution of Chiefly Authority. Paper presented at the 47th Congress of Americanists, Tulane University, New Orleans. July, 1991. (invited presentation)

A Prehispanic Irrigation Community in Tehuacán, Mexico. Lecture presented at the Department of Anthropology, American Museum of Natural History, New York. September, 1991.

A Visit to Three Paleoindian Sites in Venezuela: Are They Pre-Clovis? Lecture presented at the Department of Anthropology, American Museum of Natural History, New York. November, 1991.

Recent Archaeological Research in Oaxaca, Mexico. Lecture presented to the Trustees of the American Museum of Natural History, New York. January, 1992. (invited presentation)

Homology, Analogy, and Comparative Research in Archaeology. Paper presented at the Annual Meeting of the American Anthropological Association, Chicago, Illinois. November, 1991. (invited presentation)

Prehispanic Drained Field Agriculture in Barinas, Venezuela: A Regional Perspective. Paper presented jointly with Elsa Redmond and Milagro Rinaldi at the Annual Meeting of the Society for American Archaeology, Pittsburgh, Pennsylvania. April, 1992.

Archaeology of Mexico. Public lecture at Pelham Memorial High School, Pelham, New York. October, 1992. (invited presentation)

The Jaguar Has Landed: Native and Imperial Ideologies in Formative Oaxaca. Joint paper with Elsa M. Redmond presented at the American Anthropological Association Annual Meeting, San Franciso. December, 1992. (invited presentation)

The Aztecs of Mexico. Public lecture at Greenwich Country Day School, Greenwich, Conn. February, 1993. (invited presentation)

Las Calzadas Prehispánicas de Barinas en Su Contexto Regional. Paper presented jointly with Elsa Redmond at the Annual Meeting of the Asociación Venezolana para el Avance de la Ciencia. Mérida, Venezuela. November,

1993. (invited presentation)

Feasts, Funerals, and Politics in Formative Cuicatlán. Paper presented at the Annual Meeting of the American Anthropological Association, Atlanta, Georgia. December, 1994. (invited presentation)

Archaeological Research in the Savannas and Andean Piedmont of Western Venezuela. Lecture presented at the Department of Earth and Planetary Sciences, American Museum of Natural History, New York. April, 1995. (invited presentation)

Investigaciones Arqueológicas en San Martín Tilcajete, Oaxaca. Lecture presented jointly with Elsa Redmond. Sponsored by the INAH Centro Regional de Oaxaca and presented at the Welte Institute for Oaxacan Studies, Oaxaca, Mexico. July, 1995. (invited presentation)

Archaeology of Oaxaca, Mexico. Public lecture presented at Department of Anthropology, American Museum of Natural History, New York. March, 1996.

Feasts, Funerals, and Politics in Ancient Oaxaca. Lecture presented at the Department of Art History and Archaeology, Columbia University, New York. April, 1996. (invited presentation)

Development of Regional Polities on the Venezuelan Llanos. Paper presented jointly with Elsa Redmond at the Annual Meeting of the American Anthropological Association, San Francisco. November, 1996. (invited presentation)

Quioatepec: The Northern Frontier of the Zapotec State. Paper presented jointly with Elsa Redmond at the Annual Meeting of the Society for American Archaeology. April, 1997. (invited presentation)

Prehispanic Water Management in Mexico and Venezuela: Implications for Contemporary Ecological Planning. Paper presented at the World Archaeology Conference 4. Capetown, South Africa. January, 1999. Also chaired the symposium titled "Archaeology and the Environment." (invited presentation and participation as chair)

Recent and Ongoing Archaeological Research in Oaxaca, Mexico. Lecture presented at the Department of Earth and Planetary Sciences, American Museum of Natural History, New York. April, 1999. (invited presentation)

Archaeological Research in Oaxaca, Mexico. Public lecture presented at Central Middle School, Greenwich, Connecticut. February, 2000. (invited presentation)

Recent Investigations at San Martín Tilcajete, Oaxaca. Lecture presented at the Central Mixteca Alta Settlement Pattern Project Spring Seminar, University of Georgia, Athens. April 14, 2000. (invited presentation)

Discussant, Central Mixteca Alta Settlement Pattern Project Spring Seminar, University of Georgia, Athens. April 13-16, 2000. (invited participation)

Monte Albán's Campaigns of Conquest and the Early Zapotec State. Paper presented jointly with Elsa M. Redmond at the symposium "The Archaeology of Pre-State and Early State Warfare." 66th Annual Meeting of the Society for American Archaeology, New Orleans. April 19, 2001. (invited presentation)

Exchange Patterns and Political Development in Late Formative Oaxaca: The View from Tilcajete. Paper presented jointly with Elsa M. Redmond at the symposium "Bridging Formative Mesoamerican Cultures, Part II: Trade, Exchange, and Interaction." 66th Annual Meeting of the Society for American Archaeology, New Orleans. April 21, 2001. (invited presentation)

Early State Formation in Oaxaca, Mexico. Lecture presented at the American Museum of Natural History. April 25, 2002. (invited presentation)

Initiative, Resistance, Transformation: Cultural Evolution of the Monte Albán State. Invited lecture. Influential Scholars Series, Department of Anthropology and the Cotsen Institute, UCLA. April 28, 2003. Los Angeles, CA.

Dealing with Resistance: Territorial Expansion and Early State Development in Oaxaca, Mexico. Invited paper presented jointly with Elsa Redmond at the conference "Hierarchy and Power in the History of Civilizations" sponsored by the Center for Civilizational and Regional Studies, Russian Academy of Sciences. Held at the Russian State University for the Humanities, Faculty of History, Political Science, and Law. June 17-20, 2004. Moscow.

The Cultural Evolution of a Primary State in Oaxaca, Mexico. Invited lecture sponsored by Evolutionary Studies Program, Binghamton University. Binghamton, New York. October 29, 2004.

The Past, Present, and Possible Future of Anthropology at the American Museum of Natural History. Invited presentation, as part of a symposium titled "Why People Belong in Natural History Museums: A Vision for Museum-based Anthropology in the 21st Century." Annual Meeting of the American Association for the Advancement of Science. February 20, 2005. Washington, D.C.

Crossing the Valley: Adaptive Landscapes and Primary State Formation in Ancient Oaxaca. Invited presentation, as part of a symposium titled "Macroevolution and Archaeology: Concepts and Applications." 70th Annual Meeting of the Society for American Archaeology. April 2, 2005. Salt Lake City, UT.

A Human Maxilla Trophy from Oaxaca, Mexico. Paper presented by William Duncan, Christina Elson, Charles Spencer, and Elsa Redmond. 33rd Annual Meeting, Rochester Academy of Science. Nov. 4, 2006. Rochester, NY.

Modeling (and Measuring) Expansionism and Resistance: State Formation in Ancient Oaxaca (Mexico). Invited paper presented at 1st International Conference on History and Mathematics. Russian State University for the Humanities, Moscow. December 20, 2007.

Discussant for "The First States in Mesopotamia: Recent Research." Principal Speaker: Dr. Henry Wright, University of Michigan. Anthropology Section, New York Academy of Sciences, New York. February 26, 2007.

Refining the Sequence of Early State Formation in Oaxaca, Mexico. Invited presentation. Annual Business Meeting of Anthropology Section (Section 51), National Academy of Sciences. April 28, 2008. Washington, DC.

Recent Research on Early State Formation. Invited presentation. American Museum of Natural History, New York, NY. April 16, 2009.

Notas Sobre el Desarrollo Político en el Valle de Oaxaca durante el Formativo Tardío: Una Perspectiva desde

San Martín Tilcajete. Paper by Elsa M. Redmond and Charles S. Spencer. Invited presentation. Sept. 2, 2009. V Mesa Redonda de Monte Albán, Instituto Nacional de Antropología e Historia, Oaxaca, Mexico.

Political-Economic Reach and Administrative Complexity: Modeling the Evolution of Bureaucracy. Invited presentation. Feb. 6, 2012. Conference on Social Complexity. National Institute for Mathematical and Biological Synthesis (NIMBioS). University of Tennessee, Knoxville. Feb. 6-8, 2012.

Recent Research on Early State Formation in Oaxaca, Mexico. Invited presentation. Department of Anthropology, Dartmouth College. Hanover, NH. March 1, 2013.

Investigating the Emergence of Internally-Specialized Governance at El Palenque, a Late Formative Site near San Martín Tilcajete, Oaxaca. Invited presentation, with Elsa M. Redmond. Annual Meeting of the Society for American Archaeology, Honolulu, HI. April 4, 2013.

Clay Survey and Ceramic Provenance in the Valley of Oaxaca: Mapping out Pottery Production and Exchange in the Late to Terminal Formative. Presentation by Leah Minc, Jason Sherman, Christina Elson, Charles Spencer, and Elsa Redmond. Annual Meeting of the Society for American Archaeology, Honolulu, HI. April 5, 2013.

Parts and Wholes: Putting Together Larger Polities. Discussion initiators: Paul Halstead and Charles Spencer. Santa Fe Institute Working Group: Similarity and Divergence in Post-Neolithic Europe. Santa Fe, NM. October 14-16, 2013.

A View from the Outside. Discussants: Charles Spencer, Elsa Redmond, and Henry Wright. Santa Fe Institute Working Group: Similarity and Divergence in Post-Neolithic Europe. Santa Fe, NM. October 14-16, 2013.